



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

W. LYNDY TIPPETT
SECRETARY

March 4, 2003

MEMORANDUM

TO: Mr. Calvin W. Leggett, P.E.
Manager, Program Development Branch

FROM: Mr. Derrick W. Lewis, P.E.
Feasibility Studies Engineer *Derrick W. Lewis*

SUBJECT: FS-0310B, I-77/Catawba Avenue Interchange modifications,
Cornelius, Mecklenburg County.

As requested, we have completed a feasibility study for modifications to the I-77/Catawba Avenue interchange (FS-0310B) at Cornelius. Based on our analysis, we recommend that the current diamond interchange be replaced with a Single Point Urban Interchange (See the attached Figure). The recommended cross section on Catawba Avenue in the interchange area is a six-lane divided curb and gutter section with a raised median. As recommended in FS-0112B, the ultimate cross section on I-77 in this area is an eight-lane freeway including a 22-foot median with a concrete barrier. Dual left turn and exclusive right turn lanes are recommended on the I-77 and Catawba Avenue approaches to this interchange.

It is anticipated that there will be 8 residences and 3 businesses relocated on Catawba Avenue as a result of this project. The total cost of the project, including construction and right-of-way, is estimated to be \$33,500,000.

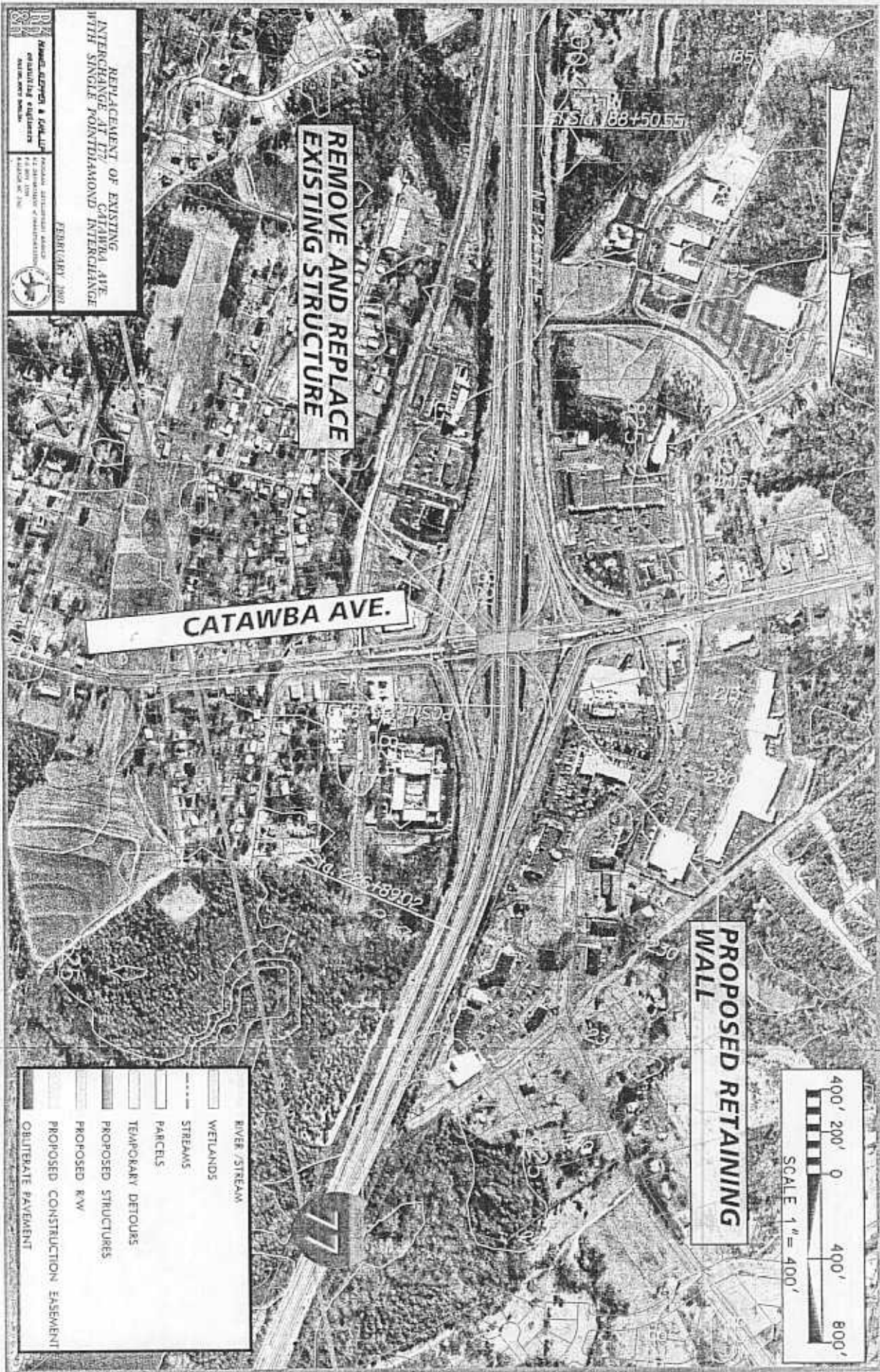
Construction	\$27,000,000
Right-of-Way	\$ 6,500,000
Total Cost	\$33,500,000

As you are aware, this work is preliminary and is not the product of comprehensive environmental or design evaluations. If you have any additional questions concerning this project, please call me at 733-2039.

DWL/dl

Attachment

cc: Mr. Marion A. Cowell, Jr., Member, Board of Transportation
Mr. Larry S. Helms, Member, Board of Transportation
Mr. Benton G. Payne, P.E., Division 10 Engineer
Mr. Al. Avant, attn: Mr. Van Argabright, P.E.



PROPOSED RETAINING WALL

REMOVE AND REPLACE EXISTING STRUCTURE

REPLACEMENT OF EXISTING INTERCHANGE AT 77/ CATAWBA AVE WITH SINGLE POINT-TO-POINT INTERCHANGE

North, Azimuth & Scale
North Arrow pointing North
Scale: 1" = 400'
February 1992

- RIVER / STREAM
- WETLANDS
- STREAMS
- PARCELS
- TEMPORARY DETOURS
- PROPOSED STRUCTURES
- PROPOSED R/W
- PROPOSED CONSTRUCTION EASEMENT
- OBSTITUTE PAVEMENT